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Mary Jane Incorvia Mattina

Feed Products and  
Pet Foods Inspected – 1993

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*The  
Connecticut  
Agricultural  
Experiment  
Station,  
New Haven*

*Bulletin 918  
March 1994*

Feed Products  
and Pet Foods  
Inspected 1993

BY MARY JANE INCORVIA MATTINA

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In this bulletin we present the results of the chemical analyses on 146 feed and pet food products collected during 1993. The products were collected by Alton Van Dyke, Feed Control Official of the Connecticut Department of Agriculture. Twenty different manufacturers are represented in this year's survey.

In Table 1 are listed the results of the proximate analysis of 146 products, together with the label guarantees for each parameter. A deficiency in protein or fat is indicated by a minus (-) sign next to the "Found%" value, and an excess in fiber is noted by a plus (+) sign in the fiber "Found%" column. A product is termed "unsatisfactory" if the found value of the parameter is outside of the value calculated from the label guarantee using the percent analytical variation guidelines recommended by the Association of the American Feed Control Officials. This year six samples (4.1%) were deficient in protein, eight samples (5.5%) were deficient in fat, and three samples (2.0%) were high in fiber. In addition to the proximates listed in Table 1, one sample was low in calcium, one sample was low in phosphorus, two samples were high in ash, and two samples were high in moisture. In summary, a total of 22 samples (15.1%) did not meet label guarantees for one or more parameters.

The analyses were performed by Mamie Pyles and Craig Musante under the supervision of Dr. David Stilwell.

Mary Jane Incorvia Mattina  
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Table 1. Analysis of individual samples.

|                                                     | Protein |        | Fat   |        | Fiber |        |
|-----------------------------------------------------|---------|--------|-------|--------|-------|--------|
|                                                     | Guar%   | Found% | Guar% | Found% | Guar% | Found% |
| AGWAY INC.                                          |         |        |       |        |       |        |
| Agway Pro Lean 14% Hog Feed T-20                    | 14      | 15.3   | 3     | 3.1    | 5     | 2.8    |
| Agway Milk Right 16 NV                              | 16      | 16.4   | 2.5   | 5.4    | 12    | 12.6   |
| Agway Gro Pak Med.                                  | 10      | 11.2   | 1     | 4.3    | 9     | 4.7    |
| Agway Complete Calf I (Bov) Med                     | 15      | 16.4   | 2     | 2.4    | 23    | 15.7   |
| Agway Ratio:Right 20 for Rumm.                      | 20      | 20.1   | 3     | 4.3    | 7     | 5.8    |
| Agway Pro:Right 40 for Rumm.                        | 40      | 39.3   | 0.75  | 1.5    | 5     | 3.2    |
| Agway Country Feeds Egg Layer                       | 18      | 19.2   | 3     | 3.9    | 4     | 2.4    |
| Agway Country Feeds Turkey Starter, Med.            | 28      | 28.8   | 3     | 4.3    | 4     | 2.7    |
| BAY-MAR PET FEEDS                                   |         |        |       |        |       |        |
| Bay-Mar Parrot Food                                 | 14      | 14.2   | 13    | 22.7   | 19    | 14.9   |
| Bay-Mar Finch Food                                  | 12      | 14.2   | 3     | 6.5    | 8     | 7.4    |
| Bay-Mar YC-550 Pigeon Feed                          | 16      | 14.9-  | 3     | 3.0    | 4     | 3.9    |
| BLUE SEAL FEEDS                                     |         |        |       |        |       |        |
| Blue Seal Strider Horse Feed Pellet                 | 11      | 12.3   | 2.5   | 4.1    | 7     | 5.4    |
| Blue Seal Bunny 16 Rabbit Pellets                   | 16      | 17.1   | 2.5   | 4.0    | 18    | 11.2   |
| Blue Seal Layer Pellets                             | 15      | 14.6   | 3     | 3.5    | 4     | 3.5    |
| Blue Seal Shepard 16 Sheep Pellets                  | 16      | 15.6   | 2     | 4.2    | 10    | 8.6    |
| Blue Seal Contender Horse Feed Pellets              | 16      | 16.6   | 3     | 4.1    | 7.5   | 5.1    |
| Blue Seal Demand Horse Pellet with High Fat         | 16      | 16.6   | 6.5   | 7.8    | 6.5   | 4.4    |
| Blue Seal Layer Mash                                | 15      | 14.6   | 3     | 3.5    | 4     | 4.0    |
| Blue Seal Milk-Maker 16 Dairy Pellet                | 16      | 16.6   | 2     | 5.2    | 10    | 7.2    |
| Blue Seal Strider Horse Feed Pellets                | 11      | 13.3   | 2.5   | 3.9    | 7     | 6.7    |
| Blue Seal Pig & Sow Pellets                         | 15      | 15.2   | 3     | 3.9    | 7     | 6.1    |
| Blue Seal Natural 26 Dog Food                       | 26      | 25.6   | 10    | 11.1   | 4     | 3.0    |
| Blue Seal Krunchies Dog Food                        | 21      | 21.4   | 8     | 7.8    | 4     | 2.9    |
| Blue Seal Energizer 16 Dairy Pellets                | 16      | 16.9   | 2.5   | 3.6    | 5.5   | 3.5    |
| Blue Seal Layer Pellets                             | 15      | 15.1   | 3     | 3.0    | 4     | 3.1    |
| Blue Seal Guinea Pig Pellets                        | 20      | 20.6   | 4     | 4.0    | 16    | 10.4   |
| Blue Seal Llama Pellets                             | 14      | 14.7   | 2.5   | 4.3    | 12.5  | 8.6    |
| Blue Seal Milk Maker 16                             | 16      | 16.0   | 2     | 5.0    | 10    | 8.1    |
| Blue Seal Ultra 27 Dog Food                         | 27      | 27.7   | 15    | 15.7   | 4     | 3.0    |
| Blue Seal Lamb Starter Grower Pellets               | 18      | 18.4   | 2.5   | 3.0    | 7     | 2.8    |
| Blue Seal Pig & Sow Pellets                         | 15      | 15.4   | 3     | 3.2    | 7     | 5.3    |
| Blue Seal Strider Horse Feed Pellets                | 11      | 11.6   | 2.5   | 3.5    | 7     | 5.0    |
| Blue Seal Contender Horse Feed Pellets              | 16      | 16.5   | 3     | 4.9    | 7.5   | 5.7    |
| Blue Seal Game Bird Crumbles                        | 20      | 19.5   | 4.5   | 5.2    | 4     | 3.4    |
| Blue Seal Hi-Pro 20 Pels Rabbit Pellets             | 20      | 20.3   | 2.5   | 2.5    | 12    | 9.8    |
| Blue Seal Demand Horse Pellet with High Fat         | 16      | 16.4   | 6.5   | 7.6    | 6.5   | 5.2    |
| Blue Seal Hutch Plus 18 Rabbit Pellets              | 18      | 18.1   | 3     | 4.4    | 15    | 11.0   |
| Blue Seal Shepherd 16 Sheep Pellets                 | 16      | 16.2   | 2     | 4.0    | 10    | 8.2    |
| Blue Seal Sunshine Plus with Yeast Culture          | 25      | 25.9   | 2     | 3.3    | 4     | 3.2    |
| Blue Seal Trotter Complete Horse Ration Pellets     | 14      | 14.9   | 2     | 3.4    | 20    | 11.6   |
| Blue Seal Turkey Grower Pellets HS Med.             | 20      | 20.2   | 4.5   | 6.3    | 4     | 2.7    |
| CARGILL, NUTRENA FEED DIV.                          |         |        |       |        |       |        |
| Cargill Quality Plus Value Pack 20% Chunks Dog Food | 20      | 21.4   | 6     | 9.8    | 4.5   | 2.3    |
| Nutrena Cat Food                                    | 30      | 31.6   | 9     | 8.4    | 3.5   | 1.6    |

Table 1. Analysis of individual samples (continued).

|                                                    | Protein |        | Fat   |        | Fiber |        |
|----------------------------------------------------|---------|--------|-------|--------|-------|--------|
|                                                    | Guar%   | Found% | Guar% | Found% | Guar% | Found% |
| Nutrena 27% Hi-Pro Dog Food                        | 27      | 27.1   | 10    | 11.9   | 3.5   | 2.4    |
| Nutrena Egg Producer Pellets                       | 16      | 15.8   | 3     | 3.2    | 4.5   | 4.2    |
| Nutrena Pig & Hog Feed                             | 15      | 15.5   | 2.5   | 3.6    | 7     | 4.7    |
| Nutrena Pig Starter Pellets, BMD 30 Medicated      | 18      | 19.1   | 3.5   | 3.9    | 4     | 2.9    |
| Nutrena Top Lamb 18-Medicated                      | 18      | 18.1   | 2     | 3.7    | 10    | 6.9    |
| Nutrena Triumph 12 Horse Pellets                   | 12      | 12.8   | 2.5   | 3.1    | 10    | 8.8    |
| Nutrena Turkey and Pheasant Starter Crumbles, Med. |         | 29.2   |       | 3.6    |       | 3.2    |
| Nutrena Vitality 14 Horse Feed Pellets             | 14      | 14.2   | 3     | 3.6    | 6     | 5.4    |
| Nutrena Egg Producer Pellets                       | 16      | 16.9   | 3     | 5.9    | 4.5   | 3.9    |
| Nutrena Egg Producer Meal                          | 16      | 16.2   | 3     | 3.8    | 4.5   | 3.8    |
| Nutrena Excel 16 Dairy Feed                        | 16      | 17.4   | 2.5   | 5.4    | 10    | 9.8    |
| Nutrena Top Lamb 16                                | 16      | 17.7   | 2     | 4.1    | 10    | 8.3    |
| Nutrena Horse Kwik Ration with Roughage Pellets    | 14      | 13.4-  | 2     | 3.5    | 20    | 17.8   |
| CENTRAL CONNECTICUT FARM COOP                      |         |        |       |        |       |        |
| 16% Floor and Cage Layer                           | 16      | 17.7   | 3.5   | 4.7    | 4     | 2.7    |
| 16% Treat                                          | 16      | 17.8   | 3     | 3.7    | 8.5   | 6.2    |
| 16% Treat with Bicarb                              | 16      | 17.5   | 3     | 3.3    | 8.5   | 6.3    |
| 20% Hi-Pro                                         | 20      | 20.9   | 3     | 4.8    | 8.5   | 4.5    |
| 20% Ruminator Pellets                              | 20      | 19.8   | 3.25  | 6.2    | 8.5   | 4.2    |
| 22% Coag Pellets                                   | 22      | 22.3   | 3     | 4.5    | 8.5   | 5.0    |
| 22% Hi Soluable Pellets                            | 22      | 22.2   | 3.25  | 3.5    | 5     | 4.6    |
| Beef Pellets                                       | 12      | 15.0   | 2.5   | 3.4    | 12    | 10     |
| Bradway Grist Customer Formula                     | 40      | 40.4   | 3     | 5.5    | 8.5   | 3.2    |
| DIAMOND FEEDS                                      |         |        |       |        |       |        |
| Diamond Cat Food                                   | 30      | 33.5   | 12    | 14.6   | 3     | 2.3    |
| Diamond Professional Diet Cat Food                 | 34      | 34.3   | 21    | 20.6   | 3     | 2.2    |
| Diamond Puppy Food                                 | 31      | 31.2   | 20    | 20.2   | 4     | 1.6    |
| Diamond Maintenance Dog Food                       | 21      | 21.1   | 12    | 14.3   | 4     | 2.7    |
| Diamond Professional Dog Food                      | 30      | 29.9   | 20    | 20.9   | 4     | 2.0    |
| HEINOLD FEEDS, INC.                                |         |        |       |        |       |        |
| Heinold 18% Sheep Pellet                           | 16      | 17.2   | 4     | 6.5    | 5.7   | 5.9    |
| Heinold Square Deal Hog Supplement                 | 40      | 39.7   | 2.5   | 2.8    | 7     | 3.5    |
| K&L FEED CORP.                                     |         |        |       |        |       |        |
| 16% Dairy Ration Pellets with Bovatec              | 16      | 16.4   | 3     | 5.6    | 8     | 6.4    |
| 16% Dairy Ration Pellets With Ammonium Chloride    | 16      | 17.2   | 3     | 5.8    | 8     | 7.3    |
| K&L 16% Layer Crumbers                             | 16      | 16.7   | 3     | 4.7    | 4     | 3.3    |
| K&L 16% Dairy Ration Pellets                       | 16      | 17.5   | 3     | 6.3    | 8     | 7.8    |
| K&L 16% Layer Pellets                              | 16      | 17.6   | 3     | 6.2    | 4     | 3.6    |
| K&L Beef Feed Pellets                              | 14      | 15.2   | 5     | 6.0    | 6.5   | 6.0    |
| K&L Broiler Starter Crumbles                       | 23      | 21.5-  | 4     | 4.3    | 3     | 2.1    |
| K&L Energizer Horse Feed Pellets                   | 11.5    | 13.4   | 4.5   | 5.8    | 8     | 8.1    |
| K&L Goat 13% Pellets                               | 13      | 16.4   | 3     | 4.5    | 9     | 5.3    |
| K&L Kennel Blend Extra Dog Food                    | 22      | 23.5   | 8     | 9.5    | 4     | 3.8    |
| K&L Kennel Blend High Protein Dog Food             | 26      | 26.8   | 10    | 11.1   | 4     | 3.1    |
| K&L Lamb & Sheep 16% w/ Ammonium Chloride          | 16      | 17.4   | 3     | 3.2    | 8     | 5.7    |
| K&L Pig Finisher Pellets                           | 13      | 16.8   | 3     | 3.3    | 4     | 2.8    |

Table 1. Analysis of individual samples (continued).

|                                                   | Protein |        | Fat   |        | Fiber |        |
|---------------------------------------------------|---------|--------|-------|--------|-------|--------|
|                                                   | Guar%   | Found% | Guar% | Found% | Guar% | Found% |
| K&L Pig Grower Pellets                            | 15      | 17.2   | 3     | 7.1    | 4     | 4.1    |
| K&L Pig Starter Pellets                           | 18      | 19.7   | 3     | 4.3    | 4     | 4.0    |
| K&L Sow Gestate Feed Pellets                      | 12      | 13.7   | 3     | 5.8    | 5     | 4.9    |
| K&L Sprinter 14% Horse Ration                     | 14      | 18.3   | 3     | 6.0    | 8     | 7.3    |
| K&L Turkey Finisher Pellets                       | 15      | 16.3   | 3.5   | 5.1    | 4     | 3.44   |
| Layer 1 High Amino Acid                           | 15      | 15.5   | 2.5   | 4.9    | 3.5   | 2.5    |
| Layer 2 High Amino Acid                           | 15      | 15.3   | 2.5   | 5.1    | 3.5   | 2.4    |
| NATURAL LIFE PET FOODS                            |         |        |       |        |       |        |
| Natural Life Adult Dog Formula                    | 26      | 27.6   | 12    | 12.6   | 3.5   | 2.4    |
| Natural Life Lamaderm Dog Formula                 | 22      | 22.1   | 10    | 12.5   | 4     | 4.2    |
| Natural Life Lamaderm Puppy Formula               | 26      | 26.2   | 15    | 14.1   | 4     | 3.4    |
| Natural Life Vegetarian Dog Formula               | 17.5    | 17.5   | 7.5   | 9.8    | 4.5   | 2.3    |
| Natural Life Puppy Dog Formula                    | 28      | 30.6   | 15    | 13.6   | 3.5   | 2.3    |
| Natural Life Condition Dog Formula                | 28      | 29.5   | 18    | 17.4   | 3.5   | 3.3    |
| Natural Life Lamaderm Feline Formula              | 28      | 26.9-  | 13    | 14.3   | 3     | 3.1    |
| NUTRO PRODUCTS                                    |         |        |       |        |       |        |
| Nutro Max Special for Dogs                        | 16      | 20.2   | 8     | 9.1    | 4.5   | 4.0    |
| Nutro Max Kibble Dog Food                         | 26      | 27.4   | 16    | 13.2-  | 4     | 2.5    |
| Nutro Max Mini Size Dog Food                      | 26      | 28.5   | 16    | 13.0-  | 4     | 3.0    |
| Nutro Max Puppy Food                              | 28      | 29.4   | 17    | 13.9-  | 4     | 3.5    |
| Nutro Max Cat Lite                                | 32      | 32.7   | 12    | 10.8   | 6     | 4.4    |
| Nutro Max Cat Kitten Food                         | 34      | 36.9   | 20    | 16.9-  | 3     | 3.2    |
| Nutro Natural Choice Lamb & Rice Formula Dog Food | 21      | 21.9   | 12    | 12.2   | 5     | 5.8+   |
| Nutro's Natural Choice Lamb & Rice Formula Puppy  | 26      | 26.1   | 12    | 12.2   | 5     | 4.1    |
| PET PRODUCTS PLUS INC.                            |         |        |       |        |       |        |
| Sensible Choice Chicken Meal & Rice Cat Food      | 30      | 30.4   | 15    | 15.2   | 3     | 2.2    |
| PET SPECIALTIES, INC.                             |         |        |       |        |       |        |
| ANF Adult Plus Dog Food                           | 25      | 27.9   | 15    | 13.7   | 3.5   | 2.0    |
| ANF Lite Dog Food                                 | 16      | 18.8   | 8     | 10.9   | 5     | 3.2    |
| ANF Maintenance Dog Food                          | 22      | 23.5   | 13    | 14.8   | 3.5   | 3.8    |
| ANF Performance Dog Food                          |         | 28.7   |       | 10.9   |       | 2.0    |
| PMI FEEDS, INC.                                   |         |        |       |        |       |        |
| Mazuri Porcine Grower                             | 16      | 14.7-  | 2.5   | 4.6    | 18    | 15.1   |
| POULIN GRAIN                                      |         |        |       |        |       |        |
| Poulin Grain Maxi Calf Milk Replacer              | 20      | 21.9   | 20    | 20.4   | 0.15  | 0.10   |
| PRO VISIONS, DIV. RALSTON PURINA                  |         |        |       |        |       |        |
| Pro Visions Pro Plan Turkey & Barley for Dogs     | 25      | 26.9   | 15    | 13.7   | 3     | 2.7    |
| PURINA MILLS                                      |         |        |       |        |       |        |
| Purina Trout Chow                                 |         | 40.2   |       | 9.5    |       | 3.2    |
| Purina Lean Generation Starter Chow S2, Med       | 19      | 22.4   | 4     | 6.2    | 5     | 3.1    |
| Purina Test Cow B 18%                             | 18      | 18.0   | 3     | 5.6    | 6     | 5.7    |
| Purina New England Pride Horse Feed 14            | 14      | 14.1   | 2     | 2.8    | 25    | 21.2   |

Table 1. Analysis of individual samples (continued).

|                                                      | Protein |        | Fat   |        | Fiber |        |
|------------------------------------------------------|---------|--------|-------|--------|-------|--------|
|                                                      | Guar%   | Found% | Guar% | Found% | Guar% | Found% |
| Purina Duck Grower                                   | 16      | 16.2   | 3     | 5.7    | 5     | 3.8    |
| Purina Pigeon Chow Checkers                          | 15      | 15.0   | 2.5   | 3.1    | 5.5   | 5.5    |
| Purina Coarse 14%                                    | 14      | 14.5   | 2.5   | 4.5    | 15    | 7.6    |
| Purina Hog Grower OTC 50                             | 16      | 16.4   | 2.5   | 5.1    | 5     | 5.0    |
| Purina Start & Grow                                  | 17      | 17.3   | 3     | 5.5    | 5     | 3.9    |
| Purina Layers Crumbles                               | 16      | 16.9   | 2.5   | 4.0    | 7     | 5.0    |
| Purina Strategy Professional Formula GX for Horses   | 14      | 13.5   | 6     | 6.4    | 8     | 7.0    |
| THE IAMS CO.                                         |         |        |       |        |       |        |
| Eukanuba Dog Food                                    | 30      | 30.8   | 20    | 16.7-  | 4     | 2.2    |
| Eukanuba Adult Dog Food                              | 25      | 26.1   | 6     | 11.7   | 5     | 2.0    |
| Eukanuba Puppy Food                                  | 33.3    | 19.2   | 2.0   |        |       |        |
| Eukanuba Light Dog Food                              | 19      | 19.6   | 9     | 8.5    | 4     | 1.4    |
| Iams Puppy Food                                      | 28      | 29.0   | 17    | 15.8   | 4     | 2.2    |
| Iams Cat Food                                        | 32      | 33.4   | 21    | 17.6-  | 3     | 2.1    |
| Iams Kitten Food                                     | 34      | 34.3   | 22    | 20.6   | 3     | 1.6    |
| Iams Less Active for Cats                            | 28      | 28.3   | 14    | 15.6   | 3     | 1.8    |
| Iams Cat Food                                        | 32      | 32.4   | 21    | 17.8-  | 3     | 2.0    |
| Iams Lamb & Rice for Dogs                            | 23      | 24.5   | 14    | 13.4   | 4     | 2.2    |
| TRIUMPH PET INDUSTRIES                               |         |        |       |        |       |        |
| Triumph Natural Dog Food                             | 25      | 29.6   | 15    | 14.4   | 4     | 3.0    |
| Triumph Natural Dog Food                             | 25      | 27.2   | 15    | 14.8   | 4     | 3.5    |
| Triumph Natural Puppy Food                           |         | 30.3   |       | 14.0   |       | 2.4    |
| Triumph Original Flavor Cat Food                     | 32      | 33.3   | 20    | 18.5   | 2.5   | 2.1    |
| Triumph Chicken Flavor Cat Food                      | 32      | 34.1   | 20    | 15.8-  | 2.5   | 2.2    |
| UNITED COOPERATIVE FARMERS                           |         |        |       |        |       |        |
| North Eastern's Finest Wild Bird Food Original Blend | 10      | 10.6   | 2     | 5.1    | 4.6   | 4.5    |
| VENTURA GRAIN CO.                                    |         |        |       |        |       |        |
| Everyday Rabbit Pellets                              | 17      | 17.3   | 3     | 4.8    | 18    | 14.9   |
| Every Day Complete Layer 16                          |         | 15.5   |       | 2.7    |       | 3.3    |
| WAUREGAN GRAIN CO.                                   |         |        |       |        |       |        |
| Wauregan Turkey & Game Bird Grower                   | 22      | 27.8   | 3.5   | 5.6    | 4.5   | 6.7+   |
| Wauregan Heifer-Grower Pellets, Med                  | 16      | 16.2   | 3     | 4.2    | 8     | 8.8    |
| Wauregan Equine's Choice Complete Horse Feed         | 14      | 14.5   | 2.5   | 3.3    | 20    | 5.0    |
| Wauregan 16% Pork Maker Plus                         | 16      | 18.4   | 3     | 3.9    | 4.5   | 5.5+   |
| Wauregan Milkers Choice 1680                         | 16      | 16.5   | 3     | 4.4    | 8     | 8.1    |
| Wauregan Rabbit Pellet 16                            | 16      | 17.1   | 3     | 4.2    | 18    | 17.5   |
| Wauregan Chick Starter, Med.                         | 20      | 16.7-  | 3     | 4.5    | 4     | 3.8    |
| Wauregan 26 Dog Food                                 | 26      | 26.4   | 10    | 11.7   | 4     | 2.8    |
| Wauregan High Production 2085                        | 20      | 21.2   | 3.5   | 5.5    | 7.5   | 7.8    |
| Wauregan Milker's Choice 1680                        | 16      | 16.7   | 3     | 5.1    | 8     | 7.6    |
| Wauregan Performance Plus Energy High Fat Horse      | 16      | 16.3   | 6.5   | 6.0    | 6.5   | 6.4    |



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ISSN 0097-0905



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